



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Application of:**

James J. Howarth

**Serial No.:** 09/944,472

**Filed:** August 30, 2001

**For:** METHOD OF BALL GRID ARRAY (BGA) ALIGNMENT, METHOD OF TESTING, ALIGNMENT APPARATUS AND SEMICONDUCTOR DEVICE ASSEMBLY

**Confirmation No.:** 1559

**Examiner:** J. Diaz

**Group Art Unit:** 2815

**Attorney Docket No.:** 2269-4348US  
MUEI-0547.00/US

NOTICE OF EXPRESS MAILING

Express Mail Mailing Label Number: EL 994827680 US

Date of Deposit with USPS: November 11, 2004

Person making Deposit: Christopher Haughton

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 or PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicant herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
US - 4,744,140	May 17, 1988	Bright
US - 5,690,504	November 25, 1997	Scanlan et al.
US - 5,805,427	September 8, 1998	Hoffman
US - 5,810,609	Sept. 22, 1998	Faraci et al.
US - 5,829,988	November 3, 1998	McMillan et al.
US - 5,887,344	March 30, 1999	Sinclair
US - 5,895,554	April 20, 1999	Gordon
US - Re. 36,217	June 1, 1999	Petersen
US - 5,924,622	July 20, 1999	Davis et al.
US - 5,930,889	August 3, 1999	Klein
US - 5,987,742	November 23, 1999	Acciai et al.
US - 6,333,638	December 25, 2001	Fukasawa et al.
US - 6,384,360	May 7, 2002	Masuo et al.
US - 6,561,836	May 13, 2003	Marshall et al.
US - 6,693,674	February 17, 2004	Wayaya et al.

Applicant offers to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is believed to be filed before the mailing date of the first Office Action on the merits subsequent to the filing of an RCE in the above-identified application.

Respectfully submitted,



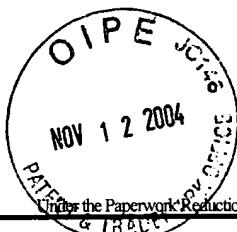
Bradley B. Jensen  
Registration No. 46,801  
Attorney for Applicant(s)  
TRASKBRITT  
P.O. Box 2550  
Salt Lake City, Utah 84110-2550  
Telephone: 801-532-1922

Date: November 11, 2004

BBJ/nj:dh

Enclosures: Form PTO-1449 or PTO/SB/08  
Copy of documents cited

Document in ProLaw



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Substitute for form 1449A/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

1

10

***Complete if Known***

Application Number	09/944,472
Filing Date	August 30, 2001
First Named Inventor	James J. Howarth
Group Art Unit	2815
Examiner Name	J. Diaz
Attorney Docket Number	2269-4348US (MUEI-0547.00/US)

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-4,744,140	May 17, 1988	Bright	
		US- 5,690,504	November 25, 1997	Scanlan et al.	
		US- 5,805,427	September 8, 1998	Hoffman	
		US- 5,810,609	Sept. 22, 1998	Faraci et al.	
		US- 5,829,988	November 3, 1998	McMillan et al.	
		US- 5,887,344	March 30, 1999	Sinclair	
		US- 5,895,554	April 20, 1999	Gordon	
		US- Re. 36,217	June 1, 1999	Petersen	
		US- 5,924,622	July 20, 1999	Davis et al.	
		US- 5,930,889	August 3, 1999	Klein	
		US- 5,987,742	November 23, 1999	Acciai et al.	
		US- 6,333,638	December 25, 2001	Fukasawa et al.	
		US- 6,384,360	May 7, 2002	Masuo et al.	
		US- 6,561,836	May 13, 2003	Marshall et al.	
		US- 6,693,674	February 17, 2004	Wayaya et al.	
		US-			

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.